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Drawn: Bruce Page	Date: 2/18/04				
Approved: Chris Samios	Date: 2/18/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 4/14/04	Size: A	Dwg. #: <b>5961-291267-APP</b>	Rev: <b>A</b>	Sheet: 1            Of    2

**APPLIES TO:**                      Motorola/Nextel Model i50SX, i55SR, i58SX, i60C, i85S, i88S, i90C, and i95CL  
Iden Cellphones (Direct Connection)

**RADIO MODIFICATIONS:**    None required.

**RADIO PROGRAMMING:**    None required.

**RADIO CONTROLS:**

1.        Turn the handset volume to maximum as indicated on the indicator bar.

**CABLING:**

ACU-1000 Interface Top Level Assembly	JPS P/N 5961-291267
ACU-1000 Interface Cable	JPS P/N 5961-291263-00
ACU-1000 Extension Cable	JPS P/N 5961-291266-00
ACU-T Interface Top Level Assembly	JPS P/N
ACU-T Interface Cable	JPS P/N
ACU-T Extension Cable	JPS P/N

**DSP PROGRAMMING:**

RX Level	9	-29dBm
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	5	2dB Boost
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	4	800 ms
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(\* Indicates Default Value)

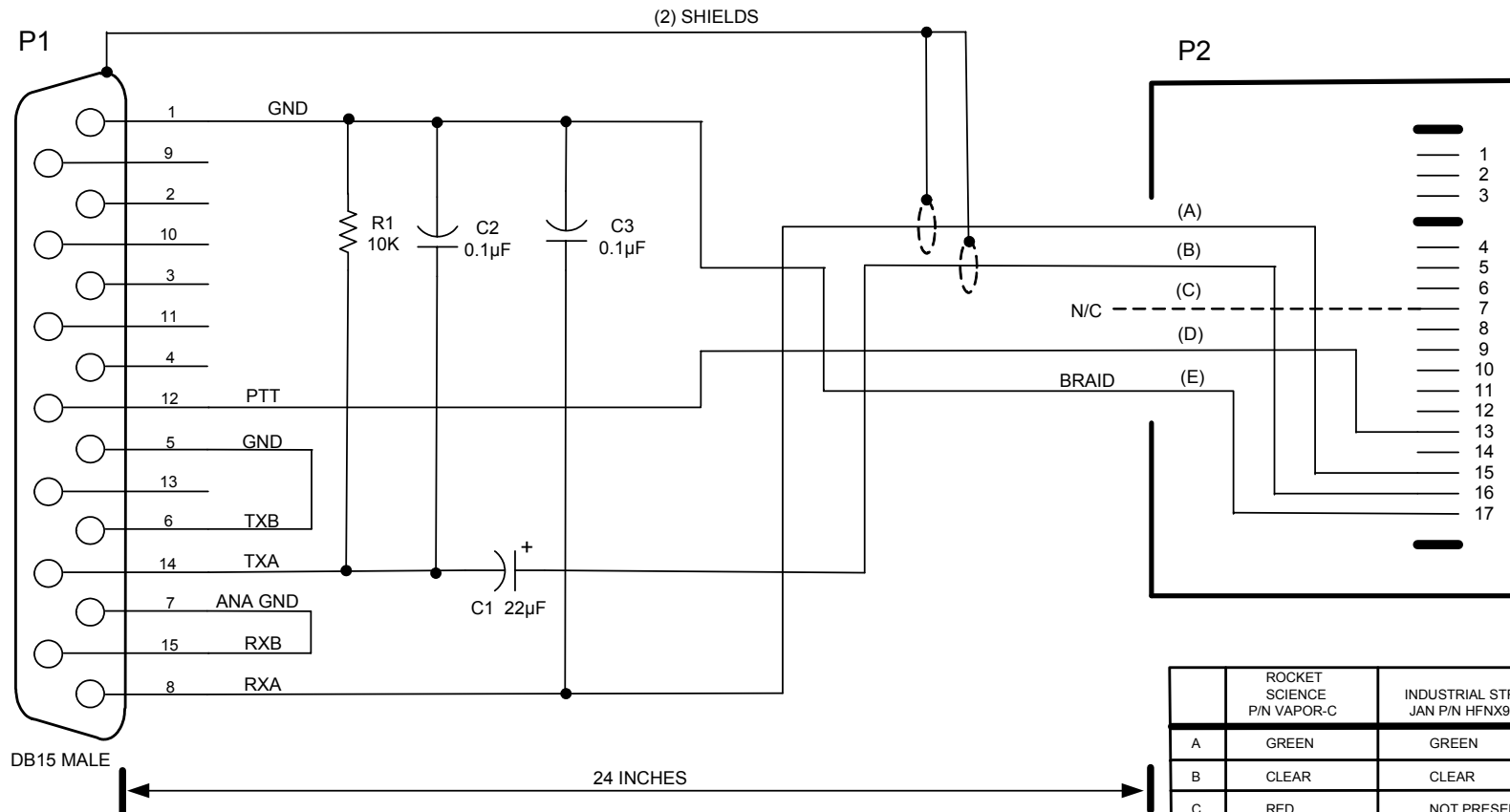
**NOTES:**        **This handset cannot be left to operate unattended.**

1.        The handset will revert to telephone mode after a time-out period of inactivity, and the operator will be needed to return the handset to Iden mode with the appropriate talk group selected.

2. When multiple talk groups are active, the handset will revert to the last active talk group and the operator will need to verify or select the desired talk group.
3. The handset models covered in these Application Notes will not pass DTMF, and therefore require an operator to manually complete all ACU-1000 or ACU-T interconnections.

# PURCHASED PART

Rev	ECO	Date
A		



NOTES: FOR C1 USE JPS P/N 0321-220250.  
FOR C2 AND C3 USE JPS P/N 0327-104101.  
FOR R1 USE JPS P/N 1820-103000.

ALL COMPONENTS CONTAINED IN P1 SHELL.

FOR P2 - USE EARBUD CABLE FROM ROCKET SCIENCE NEXTEL HANDSFREE KIT P/N VAPOR-C OR INDUSTRIAL STRENGTH P/N HFNX90PTTR (JPS P/N 0314-000216).

USED WITH:  
MOTOROLA/NEXTEL>IDEN MODELS i50SX, i55SR, i58SX, i60C, i85S, i88S, i90C, & i95CL

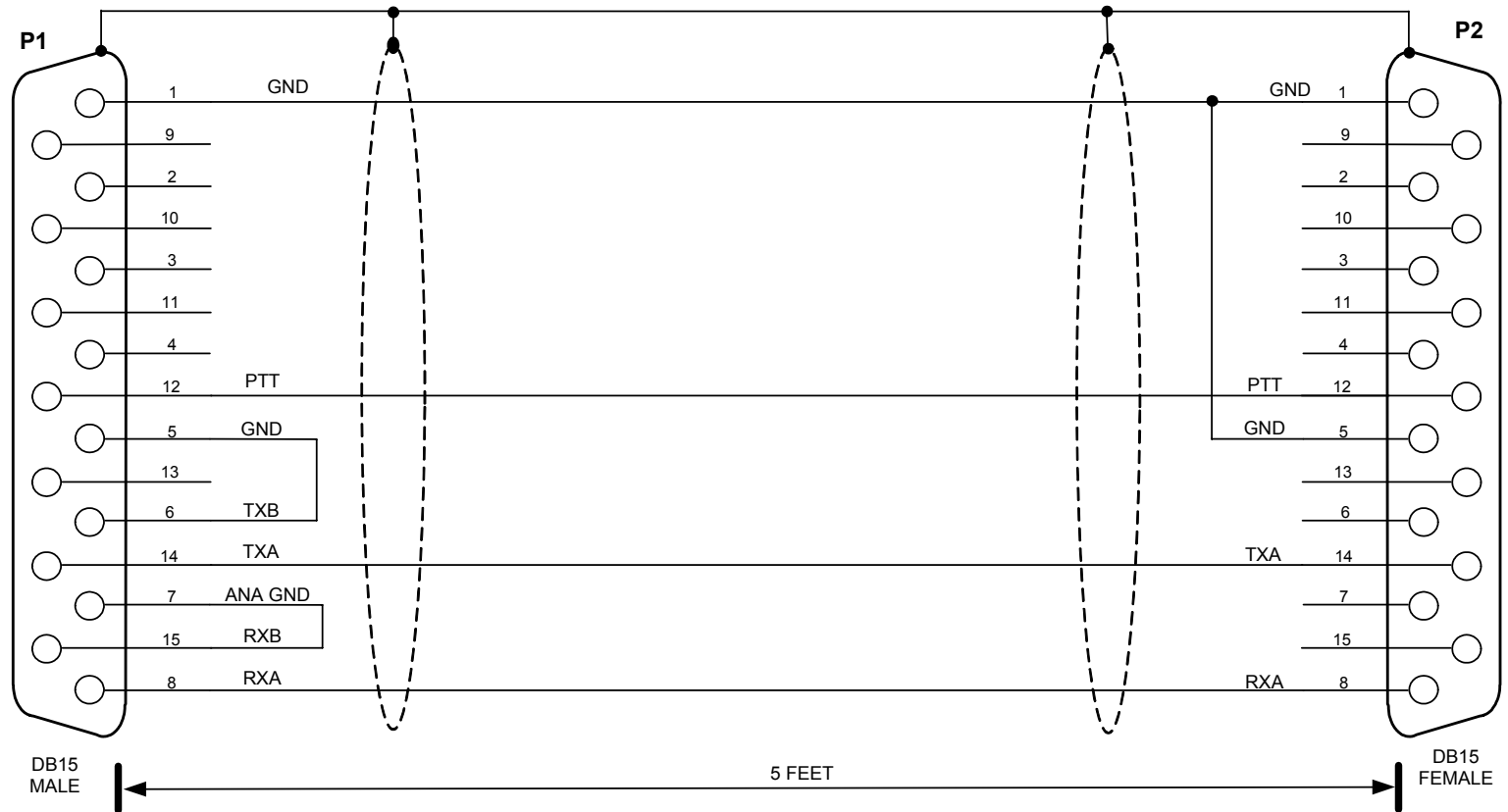
INCLUDED ON JPS P/N 5961-291267

	ROCKET SCIENCE P/N VAPOR-C	INDUSTRIAL STRENGTH JAN P/N HFNX90PTTR
A	GREEN	GREEN
B	CLEAR	CLEAR
C	RED	NOT PRESENT
D	YELLOW	RED
E	BRAID ON RED	BRAID ON RED

Designed By: CTS	<b>Raytheon JPS Communications</b>		
Drawn By: RBP	Title CABLE, ACU-1000 TO NEXTEL i90 (DIRECT)		
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Issued Date		FEBRUARY 16, 2004	Sheet 1 of 1

# PURCHASED PART

Rev	ECO	Date
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NOTE: USE SHIELDED CABLE JPS P/N 0311-042410. CONNECT SHIELD DRAIN TO SHELL OF P1 AND SHELL OF P2. USE JACK SCREWS ON P2.

INCLUDED ON:  
 NEXTEL i90 DIRECT KIT JPS P/N 5961-291267  
 NEXTEL i305 DIRECT KIT JPS P/N 5961-291270  
 USED WITH:  
 ACU-1000 TO i90 DIRECT CABLE JPS P/N 5961-291263-00  
 ACU-1000 TO i305 DIRECT CABLE JPS P/N 5961-291269-00

Designed By: Chris Samios	<b>Raytheon JPS Communications</b>		
Drawn By: Bruce Page	Title Cable, ACU Extension to Nextel i90 Family Direct Connect		
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